

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1-48. (Cancelled)

49. (Previously Presented) A method of operating an implantable infusion drug pump, comprising:

storing infusate in a main reservoir of the implantable infusion drug pump, wherein a substantially constant fluid pressure is provided to the infusate in the main reservoir;

driving infusate from the main reservoir through a flow restrictor and out through a discharge port of the implantable infusion drug pump at a substantially constant basal infusion rate;

providing a temporary bolus infusion rate in response to patient manipulation of an actuator of the implantable infusion drug pump, wherein the bolus infusion rate is provided simultaneously to the basal infusion rate, wherein the providing a temporary bolus infusion rate comprises: (i) driving fluid into a working fluid reservoir by pressure applied by the actuator, the working fluid reservoir and a secondary reservoir being mechanically coupled, the driving of fluid into the working fluid reservoir causing infusate to be drawn from the main reservoir into the secondary reservoir; (ii) providing pressure on infusate in the secondary reservoir to drive the infusate from the secondary reservoir, driving of infusate from the secondary reservoir occurring simultaneously with fluid being driven from the working fluid reservoir toward the actuator; and (iii) controlling a discharge rate from the secondary reservoir to the discharge port using a flow restrictor;

wherein the implantable infusion drug pump does not comprise an electrical motor or an electrical power supply;

wherein the implantable infusion drug pump comprises at least one one-way valve that enables the secondary reservoir to be filled without being subjected to a flow rate limitation of a flow restrictor of the implantable drug infusion pump.

50. (Cancelled)

51. (Cancelled)

52. (Previously Presented) The method of claim 49 wherein the secondary and working fluid reservoirs are defined by respective piston cylinders.

53. (Previously Presented) The method of 49 wherein the secondary reservoir is adapted to hold a maximum fluid volume that is greater than a maximum fluid volume of the working fluid reservoir.

54. (Previously Presented) The method of claim 49 wherein the driving infuse from the main reservoir is performed by an elastomeric diaphragm.